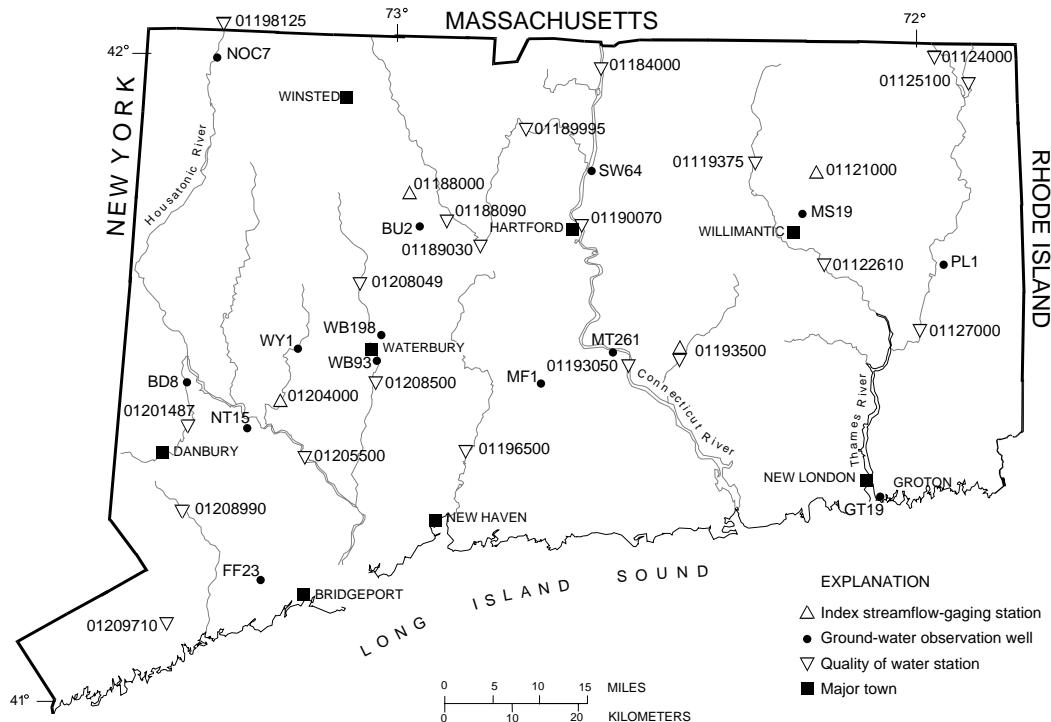


U.S. Department of the Interior U.S. Geological Survey



WATER-RESOURCES CONDITIONS IN CONNECTICUT, OCTOBER 2001

The USGS provides maps, reports, and information to help others manage, develop, and protect America's water, energy, mineral, land, and biological resources.



DATA-COLLECTION SITES USED IN THIS REPORT

This report contains a small part of the ground-water, surface-water, and water-quality data collected by the USGS at sites in Connecticut. More complete information may be found in the annual Water-Data Report. Data for this report were collected by the USGS in cooperation with the Connecticut Dept. of Environmental Protection.

For more information on USGS programs in Connecticut, please contact Virginia de Lima (District Chief); 101 Pitkin St., East Hartford, CT 06108; phone (860) 291-6740; fax (860) 291-6799; dc_ct@usgs.gov

Additional earth science information, including this document, is on the USGS Home Page on the World Wide Web at <http://www.usgs.gov> or the Connecticut District home page at <http://ct.water.usgs.gov>. For more information on all USGS reports and products (including maps, images, and computerized data), call 1-888-ASK-USGS.

INDEX TO INFORMATION

Data Sites	1	Water Quality	3
Streamflow	2	Ground Water	4

STREAMFLOW (measured in cubic feet per second) → PROVISIONAL DATA ←

Streamflow across the State was in the normal to below normal range.

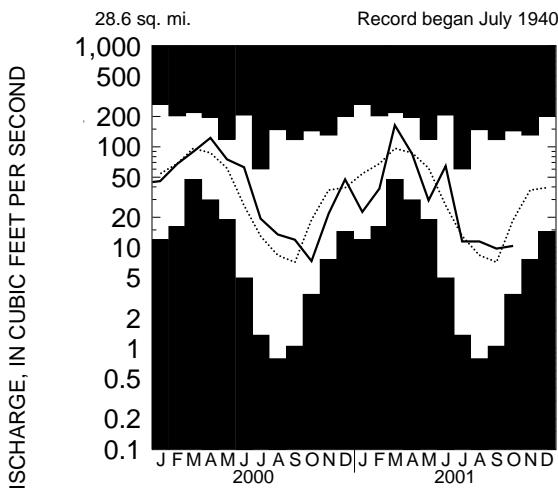
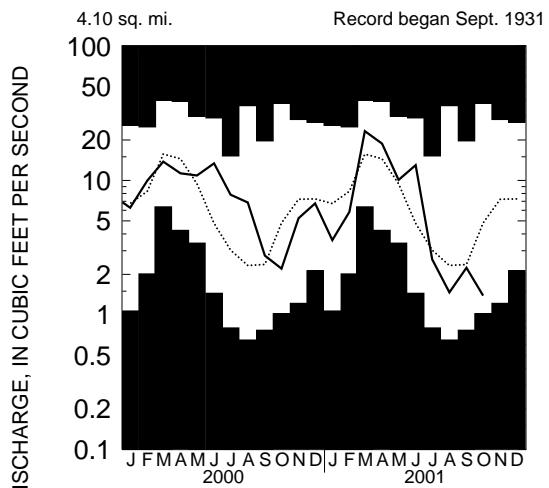
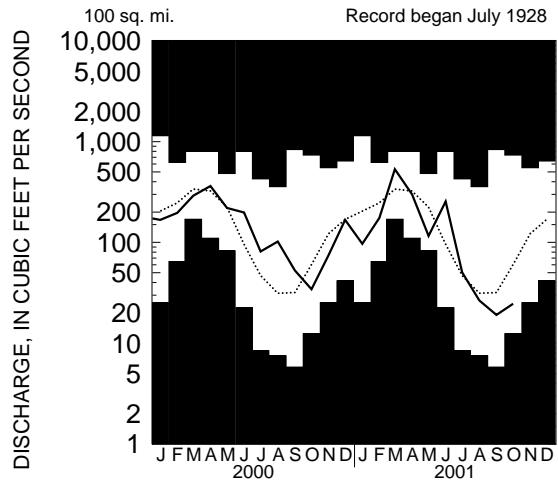
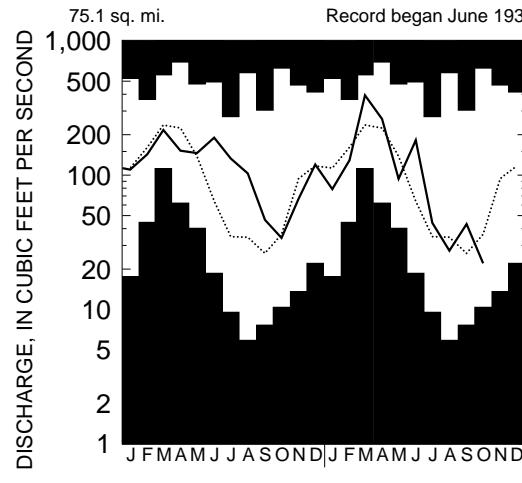
Flow at two stations—Mount Hope River (NE Connecticut) and Pomperaug River (SW Connecticut)—remained in the normal range for the fourth consecutive month. Flow at Burlington Brook (NW Connecticut) dropped to the below-normal range, and flow in the Salmon River (SE Connecticut) was in the below-normal range for the second consecutive month. Across the State, mean streamflow for October averaged 50.25 percent of the October long-term median value.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	OCT. 2001 MEAN	SEPT. 2001 MEAN	OCT. 2000 MEAN	OCT. MAXIMUM VALUE (year recorded)	OCT. MINIMUM VALUE (year recorded)	OCT. MEDIAN (1961–90)
MT HOPE RIVER (01121000)	10.4	9.79	7.36	144	1956	18.8
BURLINGTON (01188000)	1.39	2.24	2.21	37.6	1956	4.82
SALMON RIVER (01193500)	24.6	19.1	34.3	734	1956	60.1
POMPERAUG (01204000)	14.8	43.3	34.1	625	1956	36.3

MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS

■ Shaded areas on graphs show highest and lowest monthly mean discharge of record.

— Current record Median (1961–1990)

MOUNT HOPE RIVER NEAR WARRENVILLE**BURLINGTON BROOK NEAR BURLINGTON****SALMON RIVER NEAR EAST HAMPTON****POMPERAUG RIVER AT SOUTHBURY**

CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL QUALITY OF SELECTED STREAMS IN CONNECTICUT

→ PROVISIONAL DATA ←

[Station locations shown on front page; --, not applicable; —, not available; streamflow measured in instantaneous cubic feet per second; % flow duration is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; bacteriological analysis reconnaissance data enumerated using membrane filter method with immediate incubation; col/100 mL, colonies per 100 milliliters; K, results based on colony count outside the acceptable range (non-ideal colony count)]

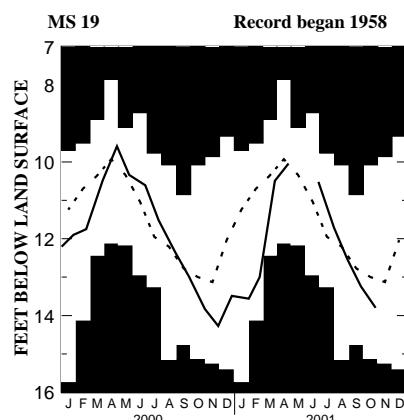
USGS WATER-QUALITY STATION NAME AND NUMBER	SAMPLE DATE IN 2001	STREAMFLOW/ % FLOW DURATION	SPECIFIC CONDUCTANCE (in $\mu\text{S}/\text{cm}$ at 25°C)	WATER TEMPERATURE (°C)	DISSOLVED OXYGEN CONCENTRATION (mg/L)/PERCENT SATURATION	FIELD PH	FECAL COLIFORM (COL/100 mL)	ENTEROCOCCI (COL/100 mL)
01119375 Willimantic R. at Merrow					SITE NOT SAMPLED THIS MONTH			
01122610 Shetucket R. at South Windham	10/17	190 / --	123	14.0	9.2 / 91	7.0	216	80
01124000 Quinebaug R. at Quinebaug					SITE NOT SAMPLED THIS MONTH			
01125100 French R. at North Grosvenordale					SITE NOT SAMPLED THIS MONTH			
01127000 Quinebaug R. at Jewett City					SITE NOT SAMPLED THIS MONTH			
01184000 Connecticut R. at Thompsonville	10/25	6600 / 74	168	15.5	9.2 / 94	7.3	32 K	9 K
01188090 Farmington R. at Unionville	10/15	208 / 87	128	16.0	10.2 / 104	7.7	254 K	508 K
01189030 Pequabuck R. at Farmington	10/16	38.2 / --	286	15.0	9.0 / 89	7.0	460	420
01189995 Farmington R. at Tariffville	10/16	352 / 93	188	14.5	9.0 / 88	7.0	758 K	129
01190070 Connecticut R. at Hartford	10/22	-- / --	202	16.0	10.6 / 108	7.8	172	62
01193050 Connecticut R. at Middle Haddam	10/22	-- / --	183	16.0	9.1 / 92	7.4	131	< 1 K
01193500 Salmon R. near East Hampton	10/11	16.6 / 97	124	11.0	12.0 / 107	7.8	5 K	8 K
01196500 Quinnipiac R. at Wallingford	10/10	69.2 / 85	386	12.5	9.9 / 92	7.7	535 K	60
01198125 Housatonic R. near Ashley Falls, MA					SITE NOT SAMPLED THIS MONTH			
01201487 Still R. at Rt. 7 at Brookfield Center					SITE NOT SAMPLED THIS MONTH			
01205500 Housatonic R. at Stevenson					SITE NOT SAMPLED THIS MONTH			
01208049 Naugatuck R. near Waterville					SITE NOT SAMPLED THIS MONTH			
01208500 Naugatuck R. at Beacon Falls					SITE NOT SAMPLED THIS MONTH			
01208990 Saugatuck R. near Redding	10/19	4.18 / 79	246	10.5	10.8 / 96	7.3	4 K	24
01209710 Norwalk R. near Winnipauk	10/30	4.40 / --	367	12.5	13.8 / 128	7.8	16 K	12 K

GROUND-WATER LEVELS

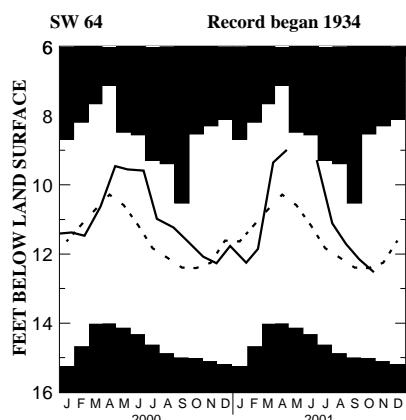
(Status of ground-water storage as indicated by water level changes in observation wells,
as shown on hydrographs)

- Shaded area on graphs show highest and lowest water levels of record through calendar year 2000.
- Solid line shows current water levels.
- Dashed line is monthly median for period of record through calendar year 2000.

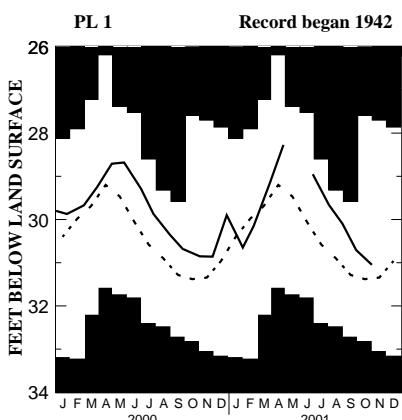
MANSFIELD



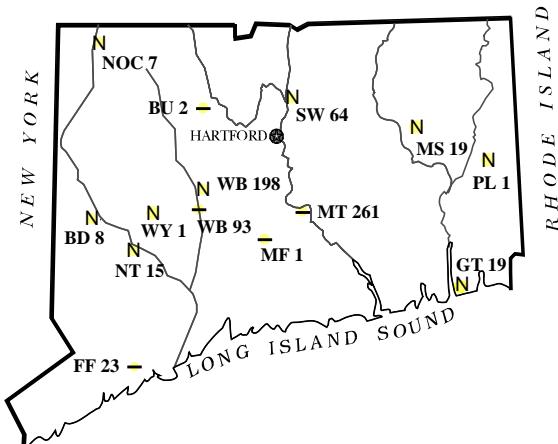
SOUTH WINDSOR



PLAINFIELD



MASSACHUSETTS



ABOVE NORMAL

Within the highest 25%
of record for this month.



NORMAL RANGE

Between the highest and lowest 25%
of record for this month.

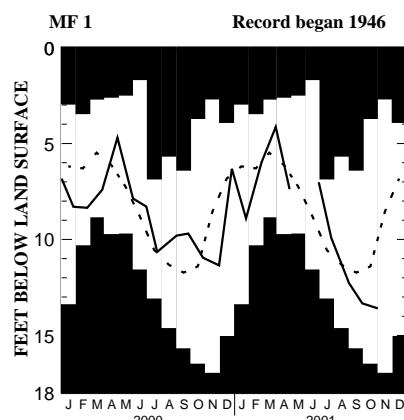


BELOW NORMAL

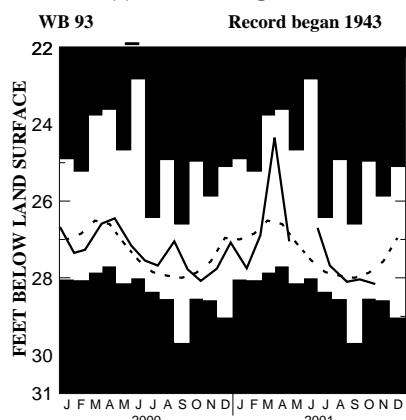
Within the lowest 25%
of record for this month.



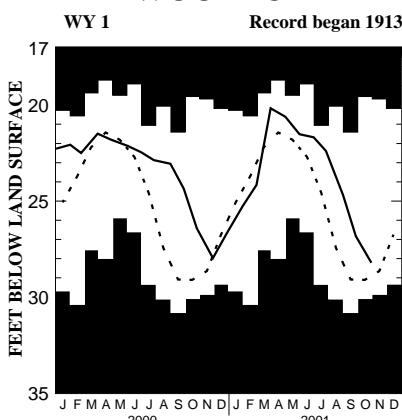
MIDDLEFIELD



WATERBURY



WOODBURY



GROUND-WATER LEVELS

Two record high and 18 record low ground-water levels were recorded during October 2001.

Ground-water levels are in feet below land surface. Maximum and minimum values are from end-of-the month readings and may not be the highest or lowest recorded during the month. Statistics are based on period of record (through calendar year 2000). Ground-water level data are collected by USGS personnel and individual observers.

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RE-CORD	YR RECORD BEGAN
	OCT. 2001 (DATE)	SEPT. 2001	OCT. 2000	OCT. MAX (YR RECORDED)	OCT. MIN (YR RECORDED)	OCT. MEDIAN				
BD 8 (Brookfield)	32.32	29	31.81	31.36	27.61	1975	33.09	1998	32.08	1966
BU 2 (Burlington)	39.56	26	36.59	28.74	16.01	1955	39.56	2001	29.85	<,<<
BU 143 (Burlington)	10.73	26	9.88	9.99	3.79	1996	10.73	2001	NA	<,<<
BU 144 (Burlington)	2.79	26	2.13	2.68	2.40	1999	2.79	2001	NA	<
CL 223 (Clinton)	9.96	30	9.39	8.55	5.37	1999	12.43	1997	8.67	1991
CL 224 (Clinton)	22.28	30	21.64	21.89	21.23	1992	23.11	1997	21.93	1991
CL 225 (Clinton)	7.50	30	7.34	8.01	5.75	1996	9.72	1997	6.77	1991
CO 335 (Colchester)	8.38	31	8.28	8.20	6.24	1989	8.38	2001	7.60	<
CV 51 (Coventry)	7.12	26	6.65	6.12	4.60	1996	7.12	2001	5.57	<
D 116 (Durham)	8.14	31	8.96	4.83	0.33	1989	8.84	1986	5.44	1986
D 117 (Durham)	12.54	31	12.18	11.68	6.69	1996	13.84	1986	11.48	1986
D 119 (Durham)	1.63	31	1.01	1.05	0.15	1989	2.69	1986	1.12	1986
D 120 (Durham)	2.86	31	3.22	2.65	1.40	1989	3.56	1986	2.60	1986
EL 82 (Ellington)	5.38	26	6.26	6.24	5.38	2001	6.40	1997	6.18	>
EL 139 (Ellington)	DRY	26	DRY	DRY	22.61	1995	DRY	1996-01	24.75	<
EL 140 (Ellington)	21.29	26	20.06	20.20	12.94	1995	21.29	2001	16.39	<
EW 133 (East Windsor)	5.63	26	5.43	5.43	4.58	1989	5.66	1988	5.38	1986
EW 134 (East Windsor)	51.52	26	51.21	50.97	49.48	1989	51.63	1999	51.15	1986
FF 23 (Fairfield)	8.28	29	8.26	8.21	7.03	1989	9.12	1997	8.02	1966
FF 30 (Fairfield)	10.54	29	9.46	4.58	1.25	1996	12.41	1995	9.39	1993
FF 31 (Fairfield)	13.62	29	10.70	9.98	4.43	1996	13.62	2001	8.66	<
FF 32 (Fairfield)	10.47	29	8.84	7.26	5.82	1996	13.44	1998	10.92	1993
FF 33 (Fairfield)	4.75	29	5.57	5.51	4.68	1996	6.65	1994	5.75	1993
GR 328 (Granby)	17.09	26	14.28	14.93	11.83	1995	17.18	1988	15.34	1981
GR 329 (Granby)	11.80	26	9.97	7.05	3.75	1996	13.08	1988	10.82	1982
GR 330 (Granby)	3.19	26	3.02	2.85	2.40	1996	4.12	1982	3.63	1982
GR 331 (Granby)	12.36	26	11.73	10.93	5.74	1999	12.36	2001	10.46	<
GT 19 (Groton)	16.45	21	16.30	16.74	12.90	1977	17.80	1963	16.50	1958
HM 445 (Hamden)	32.42	29	30.39	27.32	23.49	1999	32.42	2001	28.98	<
HM 446 (Hamden)	3.95	29	3.80	3.35	3.32	1999	3.97	1994	NA	1993
HM 447 (Hamden)	3.62	29	3.39	3.01	2.52	1995	3.76	1997	NA	1993
HM 448 (Hamden)	14.29	29	13.98	13.73	12.22	1993	14.38	1997	NA	1993
HM 449 (Hamden)	21.25	29	20.08	18.31	14.90	1999	21.25	2001	NA	<
HM 450 (Hamden)	13.75	29	DRY	13.44	12.43	1993	13.53	1997	NA	1993

		GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								
WELL NUMBER AND TOWN		OCT. 2001 (DATE)		SEPT. 2001	OCT. 2000	OCT. MAX (YR RECORDED)	OCT. MIN (YR RECORDED)	OCT. MEDIAN	NEW RE-CORD	YR RECORD BEGAN
MB 32 (Marlborough)		10.38	31	9.77	7.75	1.36	1989	10.80	1997	7.68
MB 35 (Marlborough)		17.52	31	16.61	14.75	9.55	1996	18.74	1993	15.00
MB 36 (Marlborough)		9.20	31	9.09	5.83	2.64	1996	9.20	2001	5.66
MF 1 (Middlefield)		13.59	31	13.33	10.95	3.70	1989	16.44	1964	11.40
MS 19 (Mansfield)		13.80	26	13.24	13.83	10.08	1977	15.12	1965/66	13.22
MS 44 (Mansfield)		8.57	26	8.13	6.00	0.77	1990	9.63	1997	5.91
MS 45 (Mansfield)		14.29	26	14.00	13.59	11.65	1996	14.29	2001	13.07
MS 46 (Mansfield)		15.10	26	14.76	14.77	13.29	1996	15.10	2001	14.34
MS 74 (Mansfield)		10.62	26	9.90	8.27	2.73	1996	10.85	1997	8.16
MS 75 (Mansfield)		17.30	31	15.22	15.19	12.87	1996	19.83	1997	18.40
MS 76 (Mansfield)		36.14	26	DRY	30.90	30.90	2000	36.14	2001	34.59
MS 77 (Mansfield)		10.47	26	9.74	8.04	2.70	1996	10.68	1997	7.86
MT 261 (Middletown)		25.16	31	24.13	22.64	19.48	1989	26.92	1964	23.79
NHV 201 (North Haven)		17.14	29	16.72	16.20	14.83	1989	18.25	1986	16.72
NHV 202 (North Haven)		41.20	29	40.25	42.73	41.20	2001	59.54	1985	51.00
NOC 7 (North Canaan)		9.78	30	9.99	9.72	8.20	1983	10.54	1997	9.72
NSN 77 (N. Stonington)		15.40	30	15.07	14.06	10.09	1996	17.33	1993	14.36
NSN 78 (N. Stonington)		5.12	30	4.81	4.96	3.85	1996	5.12	2001	4.28
NT 15 (Newtown)		8.04	29	7.45	7.78	1.88	1975	11.14	1998	7.86
PL 1 (Plainfield)		31.05	30	30.71	30.85	27.59	1955	32.80	1965	31.40
SB 30 (Southbury)		20.95	29	21.10	20.32	16.90	1996	22.13	1995	20.53
SB 39 (Southbury)		7.71	29	7.08	7.67	4.96	1996	7.71	2001	7.26
SB 41 (Southbury)		52.76	29	53.30	52.16	45.65	1996	54.72	1995	50.10
SB 42 (Southbury)		19.91	29	20.72	17.22	12.10	1996	19.91	2001	15.61
SC 19 (Scotland)		11.03	30	10.55	9.89	2.01	1996	11.44	1997	8.73
SC 20 (Scotland)		10.82	30	10.10	10.78	4.72	1996	11.76	1993	9.89
SC 21 (Scotland)		1.51	30	1.13	1.55	0.40	1996	1.74	1997	0.94
SC 22 (Scotland)		14.01	30	13.62	14.13	11.05	1996	14.57	1993	13.61
SC 23 (Scotland)		2.73	30	2.52	2.99	1.38	1993	2.99	2000	2.35
SM 7 (Salem)		13.26	30	13.07	12.62	7.40	1989	13.90	1997	13.20
SW 64 (S. Windsor)		12.53	26	12.15	12.08	8.53	1975	14.99	1966	12.53
SY 15 (Salisbury)		15.71	31	14.99	13.96	13.63	1989	16.99	1993	15.33
SY 23 (Salisbury)		14.82	31	13.12	7.45	4.55	1989	16.11	1993	9.23
SY 24 (Salisbury)		16.77	31	16.32	12.85	9.95	1989	18.77	1997	14.23
WB 93 (Waterbury)		28.16	29	28.04	28.08	24.24	1998	28.53	1964	27.85
WB 198 (Waterbury)		20.51	29	18.96	17.35	9.04	1955	21.76	1988	17.50
WY 1 (Woodbury)		28.21	29	26.83	26.42	19.56	1955	33.00	1914	29.16
										1913

New records: >, new record high for month; >>, new record high for period of record; <, new record low for month;
 <<, new record low for period of record; *, median not calculated--number shown is mean; NA, not available; OBS, obstructed;
 +, water level above ground surface